STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/562,134_
Source: _1 FW.P_
Date Processed by STIC: _1/10/06_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE __CHECKER VERSION 4.4.0 PROGRAM__, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314
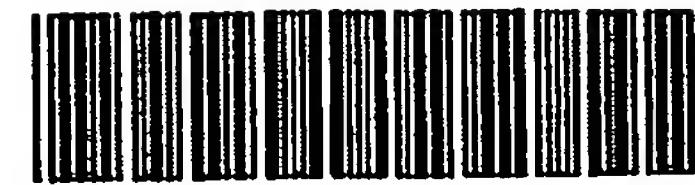
Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: *10/562,134*

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
   Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
   prevent "wrapping."

2 _____ Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
   Numbering   use space characters, instead.

4 _____ Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
   ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length   Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules,
   each n or Xaa can only represent a single residue. Please present the maximum number of each
   residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
   "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
   previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
   the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
   Artificial or Unknown sequences.

7 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
   (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
   (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
   (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
   This sequence is intentionally skipped

   Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
   (NEW RULES)   <210> sequence id number
   <400> sequence id number
   000

9 _____ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
   (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
   In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
   Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
   is Artificial Sequence

11 _____ Use of <220>   Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
   Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
   "Unknown." Please explain source of genetic material in <220> to <223> section.
   (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
   "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
   listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n/Xaa   "n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

AMC – Biotechnology Systems Branch – 09/09/2003

OIPE LAP58
MAR 16 2007
PATENT & TRADEMARK OFFICE

IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

```
   3 <110> APPLICANT: TOOKE, NIGEL
   4         EKSTROM, BJORN
   6 <120> TITLE OF INVENTION: NEW METHOD
   8 <130> FILE REFERENCE: 71870-82448
C  10 <140> CURRENT APPLICATION NUMBER: US/10/562,134
C--> 11 <141> CURRENT FILING DATE: 2005-12-23
  13 <150> PRIOR APPLICATION NUMBER: SE 0301951-0
  14 <151> PRIOR FILING DATE: 2003-06-30
  16 <150> PRIOR APPLICATION NUMBER: US 60/481,043
  17 <151> PRIOR FILING DATE: 2003-06-30
  19 <150> PRIOR APPLICATION NUMBER: US 60/481,319
  20 <151> PRIOR FILING DATE: 2003-09-01
  22 <160> NUMBER OF SEQ ID NOS: 30
  24 <170> SOFTWARE: PatentIn version 3.2
  26 <210> SEQ ID NO: 1
  27 <211> LENGTH: 27
  28 <212> TYPE: DNA
  29 <213> ORGANISM: Artificial
  31 <220> FEATURE:
  32 <223> OTHER INFORMATION: Artificial
  34 <400> SEQUENCE: 1
  35 cagcagcagc agcagcagca gcagcag
  38 <210> SEQ ID NO: 2
  39 <211> LENGTH: 6
  40 <212> TYPE: DNA
  41 <213> ORGANISM: Artificial
  43 <220> FEATURE:
  44 <223> OTHER INFORMATION: Artificial
  46 <400> SEQUENCE: 2
  47 gtcgtc
  50 <210> SEQ ID NO: 3
  51 <211> LENGTH: 12
  52 <212> TYPE: DNA
  53 <213> ORGANISM: Artificial
  55 <220> FEATURE:
  56 <223> OTHER INFORMATION: Artificial
  58 <400> SEQUENCE: 3
  59 gtcgtcgtcg tc
  62 <210> SEQ ID NO: 4
  63 <211> LENGTH: 15
  64 <212> TYPE: DNA
  65 <213> ORGANISM: Artificial
  67 <220> FEATURE:
```

pp 1-4, 6

Does Not Comply
Corrected Diskette Needed

global error
insufficient response – give source of genetic material
(see item 11 on
27 Error
Summary
Sheet)

6

12

1/10/2006

RAW SEQUENCE LISTING   DATE: 01/10/2006
PATENT APPLICATION: US/10/562,134   TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

```
 68 <223> OTHER INFORMATION: Artificial
 70 <400> SEQUENCE: 4                                          15
 71 gtcgtcgtcg tcgtc
 74 <210> SEQ ID NO: 5
 75 <211> LENGTH: 21
 76 <212> TYPE: DNA
 77 <213> ORGANISM: Artificial
 79 <220> FEATURE:
 80 <223> OTHER INFORMATION: Artificial
 82 <400> SEQUENCE: 5                                          21
 83 gtcgtcgtcg tcgtcgtcgt c
 86 <210> SEQ ID NO: 6
 87 <211> LENGTH: 27
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Artificial
 94 <400> SEQUENCE: 6                                          27
 95 cggcggcggc ggcggcggcg gcggcgg
 98 <210> SEQ ID NO: 7
 99 <211> LENGTH: 6
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Artificial
106 <400> SEQUENCE: 7                                           6
107 gccgcc
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 12
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Artificial
118 <400> SEQUENCE: 8                                          12
119 gccgccgccg cc
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 15
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Artificial
130 <400> SEQUENCE: 9                                          15
131 gccgccgccg ccgcc
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 21
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Artificial
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

```
142 <400> SEQUENCE: 10
143 gccgccgccg ccgccgccgc c                                    21
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Artificial
154 <400> SEQUENCE: 11                                         20
155 atggtgcacc tgactcctga
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 21
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Artificial
166 <400> SEQUENCE: 12                                         21
167 ggagaagtct gccgttactg c
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 41
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Artificial
178 <400> SEQUENCE: 13                                         41
179 gcagtaacgg cagacttctc ctcaggagtc aggtgcacca t
182 <210> SEQ ID NO: 14
183 <211> LENGTH: 41
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Artificial
190 <400> SEQUENCE: 14                                         41
191 atggtgcacc tgactcctga ggagaagtct gccgttactg c
194 <210> SEQ ID NO: 15
195 <211> LENGTH: 15
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Artificial
202 <400> SEQUENCE: 15                                         15
203 acggcagact tctcc
206 <210> SEQ ID NO: 16
207 <211> LENGTH: 36
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Artificial
214 <400> SEQUENCE: 16
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134
DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

```
215 cggcggcggc ggcggcggcg gcggcggcgg cggcgg                          36
218 <210> SEQ ID NO: 17
219 <211> LENGTH: 30
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Artificial
226 <400> SEQUENCE: 17                                                30
227 ctgctgctgc tgctgctgct gctgctgctg
230 <210> SEQ ID NO: 18
231 <211> LENGTH: 60
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Artificial
238 <400> SEQUENCE: 18
239 ctgctgctgc tgctgctgct gctgctgctg ctgctgctgc tgctgctgct gctgctgctg  60
242 <210> SEQ ID NO: 19
243 <211> LENGTH: 9
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Artificial
250 <400> SEQUENCE: 19                                                 9
251 cagcagcag
254 <210> SEQ ID NO: 20
255 <211> LENGTH: 59
256 <212> TYPE: DNA
257 <213> ORGANISM: Streptococcus salivarius
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (34)..(36)
263 <223> OTHER INFORMATION: n is a, c, g, or t
265 <400> SEQUENCE: 20
266 taggtgaatt aataagccta gggacttgat tttnnncaag ttacggcgag tgaactggc   59
269 <210> SEQ ID NO: 21
270 <211> LENGTH: 59
271 <212> TYPE: DNA
272 <213> ORGANISM: Streptococcus vestibularis
275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: (34)..(36)
278 <223> OTHER INFORMATION: n is a, c, g, or t
280 <400> SEQUENCE: 21
281 taggtgaatc aataagccta gggacttgat tttnnncaag ttacggcgag cgaactagc   59
284 <210> SEQ ID NO: 22
285 <211> LENGTH: 59
286 <212> TYPE: DNA
287 <213> ORGANISM: Streptococcus orisratti
```

OK-good

```
        289 <400> SEQUENCE: 22
        290 taggcgaaaa aataagccta gggggggtagt cttttctgcc ctacggcgag taaaatggc        59
        293 <210> SEQ ID NO: 23
        294 <211> LENGTH: 59
        295 <212> TYPE: DNA
        296 <213> ORGANISM: Streptococcus canis
        299 <220> FEATURE:
        300 <221> NAME/KEY: misc_feature
        301 <222> LOCATION: (29)..(30)
        302 <223> OTHER INFORMATION: n is a, c, g, or t
        304 <220> FEATURE:
        305 <221> NAME/KEY: misc_feature
        306 <222> LOCATION: (35)..(36)
        307 <223> OTHER INFORMATION: n is a, c, g, or t
        309 <400> SEQUENCE: 23
W-->    310 taggcgaaca aataagccta gggatgtgnn cttgnncaca ttacggcgga gaaaatggc        59
        313 <210> SEQ ID NO: 24
        314 <211> LENGTH: 59
        315 <212> TYPE: DNA
        316 <213> ORGANISM: Streptococcus equi zooepid
        319 <220> FEATURE:
        320 <221> NAME/KEY: misc_feature
        321 <222> LOCATION: (29)..(30)
        322 <223> OTHER INFORMATION: n is a, c, g, or t
        324 <220> FEATURE:
        325 <221> NAME/KEY: misc_feature
        326 <222> LOCATION: (36)..(36)
        327 <223> OTHER INFORMATION: n is a, c, g, or t
        329 <400> SEQUENCE: 24
W-->    330 taggcgaaca aataagccta gggatgtgnn tttgancaca ttacggcgag tgaaaaggc        59
        333 <210> SEQ ID NO: 25
        334 <211> LENGTH: 59
        335 <212> TYPE: DNA
        336 <213> ORGANISM: Streptococcus dysgal equi
        339 <220> FEATURE:
        340 <221> NAME/KEY: misc_feature
        341 <222> LOCATION: (29)..(30)
        342 <223> OTHER INFORMATION: n is a, c, g, or t
        344 <220> FEATURE:
        345 <221> NAME/KEY: misc_feature
        346 <222> LOCATION: (35)..(36)
        347 <223> OTHER INFORMATION: n is a, c, g, or t
        349 <400> SEQUENCE: 25
r -->   350 taggcgaaca aataagccta gggatgtgnn cttanntaca ttacggcgaa gaaaatggc        59
        353 <210> SEQ ID NO: 26
        354 <211> LENGTH: 59
        355 <212> TYPE: DNA
        356 <213> ORGANISM: Streptococcus parauberis
        359 <220> FEATURE:
```

FYI

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/10/2006
PATENT APPLICATION: US/10/562,134   TIME: 09:40:08

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 34,35,36
Seq#:21; N Pos. 34,35,,36
Seq#:23; N Pos. 29,30,35,36
Seq#:24; N Pos. 29,30,36
Seq#:25; N Pos. 29,30,35,36
Seq#:26; N Pos. 28,29,30,31
Seq#:27; N Pos. 29,30
Seq#:28; N Pos. 29,30,35,36
S }:29; N Pos. 29,30,35,36
Seq#:30; N Pos. 33,36

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
p~~ 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

ignore this

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:08

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

```
L:10  M:270 C: Current Application Number differs, Replaced Current Application Number
L:11  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
```